

Data sheet

Slimline nozzles

General data sheet

For specific information on this product, please contact Danfoss A/S.

Identification



As an example nozzles housing engraved with the following:

- 1 Danfoss
- 2 Finished Product Code (030L6618)
- 3 Batch Code (MR4)

Application

This type of nozzle has been widely used within the humidification industry for years. It is tailored for fine water atomization in applications like comfort humidity control, open space humidification, adiabatic cooling etc. The nozzle generates billions of very small droplets, depending on pressure and water quality. The finer and more uniform the water mist, the greater the potential for adhesion between water and the surrounding particles.

With our technology we can achieve humidification and cooling without wetting. The nozzle has a long-life expectancy due to the Tin/Nickel (SnNi) coated design. The droplet size and spraying pattern will not rapidly deteriorate. Lifetime of the nozzles are depending on the application, environment, pressure, temperature, and filtration (contamination) of the fluid.

Application and features

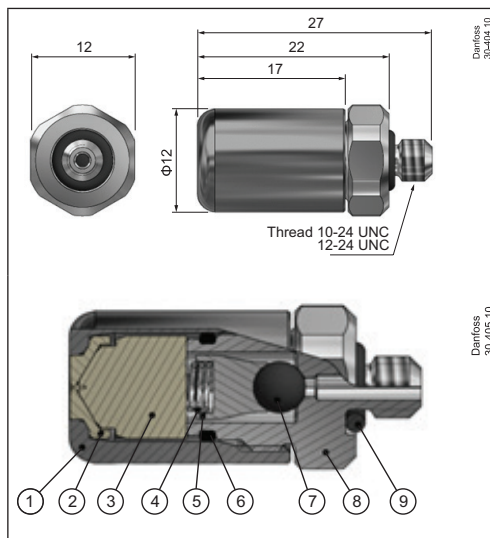
- Adiabatic cooling
- Humidification
- Disinfection
- Dust control
- Cleaning
- Green houses
- Field proven performance for over 75 years
- Accurate, flow rate and spray angle
- Produces a finely atomized mist

Availability

- Standard flow rate: 1,3 – 17,2 L/h
- Spray angle: 60° & 80°
- Spray pattern: Hollow
- Connection thread 10/24 & 12/24

Further specifications on request

Design



All nozzles come with a built-in valve as standard. With the slimline anti-drip nozzles, operators can achieve fluid cut-off near the orifice while maintaining pressure within the nozzle supply system.

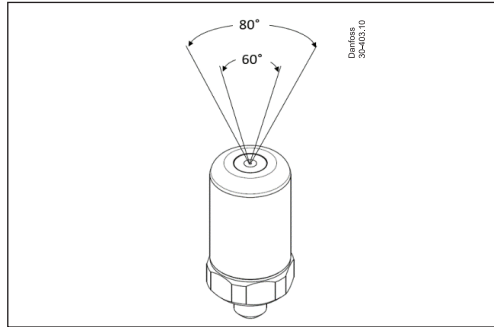
Components:

- 1. Housing
- 2. Orifice disc
- 3. Cone
- 4. Spring
- 5. Guide
- 6. O-ring Ø6,0
- 7. Rubber ball
- 8. Screw
- 9. O-ring Ø4,0

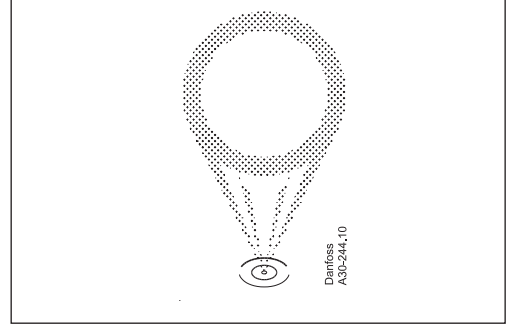
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Spray angle and spray pattern



60° & 80° spray angle



Hollow spray

Technical data

Material and construction

The nozzle housing, guide and screw are Tin/ Nickel (SnNi) plated brass. This coating is tight and extremely hard which gives a valuable corrosion resistance.

Disc and cone are available in:

- AISI 303 (Stainless Steel)
- Nickel Silver (copper nickel alloy)

Spring is made of Stainless Steel AISI 303. Material for ball & O-ring's is FPM.

Tightening torque

| | |
|-------------------------------|-----------------|
| Recommended tightening torque | Tighten by hand |
| Maximum tightening torque | 3 Nm |

Performance

Minimum recommended operation pressure is 14 bar.

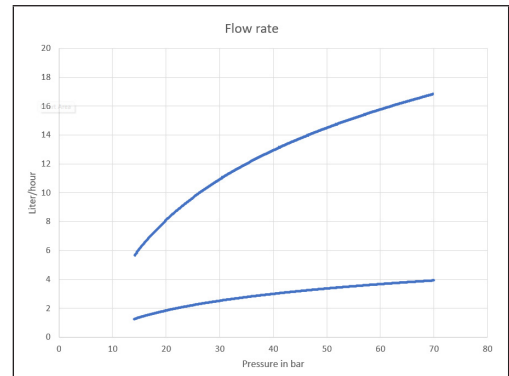
Maximum recommended operation pressure is 80 bar.

Cut off valve

The cut off valve has a closing pressure between 4,5 to 6 bar.

Flow rates

Standard flow rates are available in the region between the curves.

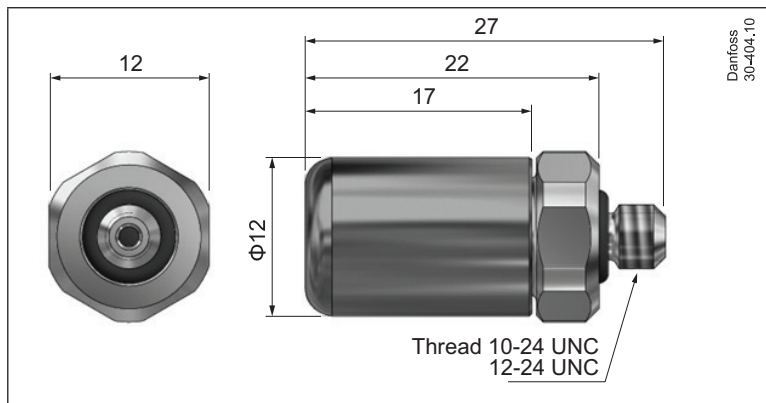


Further specifications on request

Nozzle types

Nozzles are available with 2 different spray angles 60° & 80° with hollow spray pattern.

Dimensions



Danfoss A/S

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